



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/786,333	03/08/2001	Patrick Defay	204251US2PCT	5071
22850 7590 05/02/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER VILLECCO, JOHN M	
			ART UNIT 2622	PAPER NUMBER
			NOTIFICATION DATE 05/02/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com
oblonpat@oblon.com
jgardner@oblon.com

Office Action Summary

Application No.

09/786,333

Applicant(s)

DEFAY, PATRICK

Examiner

John M. Villecco

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12, 14-22, 29 and 30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12, 14-22, 29 and 30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed February 21, 2007 have been fully considered but they are not persuasive.
2. Regarding the 112, 1st paragraph rejection presented in the previous office action. The applicant argues that the construction of the viewfinder is not critical and thus, the construction of the viewfinder is not important to the invention. However, one of the applicant's key arguments against the art rejections presented by the examiner is that the optical path of the viewfinder in the applicant's invention is not further changed after being redirected by the shutter. Since the applicant is clearly trying to claim an optical path is not changed, the applicant needs to show details of the viewfinder. In the applicant's specification, the viewfinder is presented as just a box (3) in the drawings with no further details. The description of the invention in the specification, no further details are presented as to the structure of the viewfinder. Furthermore, applicant argues that the prism (24) in Bauer, II cannot be interpreted to be part of the viewfinder. The examiner fails to find the difference between the two teachings. If the camera in Bauer were to be drawn without the specifics of the viewfinder, one could easily draw a box, as the applicant has done in their disclosure, to represent the prism (24) and viewfinder (26) to be included in the box representing the viewfinder. Therefore, the examiner is of the opinion that the details of the viewfinder must be critical to the applicant's invention, since applicant states that the prism (24) of Bauer cannot be interpreted to be part of the viewfinder. Therefore, the examiner maintains that the construction of the viewfinder is

Art Unit: 2622

critical to the applicant's invention, since such a big deal is being made of the fact that the prism of Bauer cannot be interpreted to be part of the viewfinder. If the applicant's viewfinder contained a prism, or mirror, or the like, the applicant would be in direct contradiction to their previous statements. Therefore, the examiner maintains the 112, 1st paragraph rejection in the previous office action.

3. Additionally, applicant argues on the bottom of page 9 of the response that the examiner has failed to provide adequate reasoning to support the conclusion of obviousness in using the Glenn reference. In support of this argument applicant argues that Bauer is used for a film camera and Glenn is used for an electronic camera and that Glenn is used for reflecting light to two cameras and not to a camera and a viewfinder, as in applicant's invention. The examiner contends that proper motivation was used in the combination. Ohshima was used to show that it is well known in the art to provide capture digital or electronic images. Since Bauer is such an old patent, the inventor probably didn't even contemplate the use of an image sensor instead of film. One of ordinary skill in the art at the time the invention was made would have found it obvious to replace the film of Bauer with an image sensor, as in Ohshima for the obvious reasons – the ability to electronically store images, manipulate images and to transfer images. Therefore, the combination of Bauer and Ohshima is deemed to have proper motivation. As for the Glenn reference, Glenn teaches driving a rotating shutter for redirecting light to a different location at a speed of rotation proportional to the frequency of a synchronizing signal for the reading of the sensors by a processing means. This feature allows for the vertical retrace of the camera to occur when no light from the image is going to the camera – a beneficial feature recognized by one of ordinary skill in the art and proper motivation, as deemed by the examiner. The fact that Glenn

Art Unit: 2622

does not teach redirecting light to a viewfinder is irrelevant since Bauer is used to show that feature.

4. Additionally, as previously discussed, applicant further argues that the prism of Bauer cannot be interpreted to be part of the viewfinder. The examiner can find no valid reasoning why not. If the camera in Bauer were to be drawn without the specifics of the viewfinder, one could easily draw a box, as the applicant has done in their disclosure, to represent the prism (24) and viewfinder (26) to be included in the box representing the viewfinder. Therefore, the examiner strongly maintains that the prism (24) of the Bauer reference can be interpreted to be part of the viewfinder. Thus, the shutter redirects light to the viewfinder (including prism (24)) without further change to the viewfinder. It is noted that the applicant's amendment does little to overcome this fact. The prism can be interpreted to be the light receiving portion of the viewfinder.

5. Furthermore, applicant argues that the combination of the Ohshima with Bauer would render the Bauer reference unsatisfactory for its intended use and that the combination would require substantial reconstruction and redesign of the elements and a change in the basic principle. The examiner disagrees with this assertion. A shift from film to image sensors have been taking place since the mid-1980's. Replacing the film with an image sensor would merely require the components of the design to be updated and would not change the basic principle of the camera, which is to capture an image. Therefore, the examiner disagrees with this assertion.

6. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning as stated on page 12 of the response, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based

Art Unit: 2622

upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

7. For the reasons stated above, the rejections from the previous office action will be repeated.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. Claims 12, 14-22, 29, and 30 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The details of the optical viewfinder are critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Regarding claims 14, 20, and 22, applicant claims some variation of not further changing the viewfinder optical axis after being deflected by the shutter. This appears to be a critical aspect of the applicant's rebuttal of the examiners rejection. However, the only location in the applicant's specification where the applicant discloses that the viewfinder optical axis has not been further changed occurs in Figure 1. This figure merely shows the optical viewfinder as a box in the drawing. Also, there is no disclosure in the actual written specification describing the structure of the optical viewfinder, whether or not the optical axis has been altered, or what the light receiving portion of

Art Unit: 2622

the viewfinder may be. The disclosure shows the optical viewfinder to be box without presenting any details. Clearly, applicant believes this feature (i.e. the optical viewfinder) is an essential element in the invention from the arguments presented. See MPEP § 2164.08(c) and MPEP § 2172.01.

10. Claims 12, 15-19, 21, 29, and 30 are rejected based upon their dependency to claims 14, 20, and 22.

11. For examination purposes it will be assumed that applicant means that the light reflected from the shutter is not deflected before it reaches the optical viewfinder section of the camera.

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. **Claims 12, 14, 15, 17, 21, 22, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer, II (U.S. Patent No. 3,692,394) in view of Ohshima et al. (U.S. Patent No. 4,812,911) and further in view of Glenn (U.S. Patent No. 4,667,226) and Hines (U.S. Patent No. 6,122,455).**

14. Regarding *claim 14*, Bauer discloses a camera comprising: an objective support configured to support an objective (Fig. 1, lens 14) having an objective focal plane (Fig. 1, element 20) and a main optical axis (arrow entering lens until rotary reflective shutter 16); an optical viewfinder (Fig. 1, eyepiece 28) located off the main optical axis and configured to

provide an off-field view image because the light reaching the optical viewfinder is different from the light reaching the imaging plane, the light of the optical viewfinder being designated the off-field view (Fig. 1); and a shutter configured to allow the light of the main optical axis to pass through the shutter, in an open position, and configured to direct the light to the viewfinder along a viewfinder optical axis, in a closed position (Fig. 1, element 16). Bauer discloses the shutter comprises at least one rotative element including at least one mirror part corresponding to the closed position and at least one aperture part corresponding to the open position (Fig. 1, elements 30 and 32). Additionally, applicant claims that the light is reflected from the shutter to the viewfinder without further changing the optical axis. Clearly the prism (24) of Bauer is part of the optical viewfinder. Thus, the optical axis of the light reflected from the shutter is not further changed from the point of the reflecting shutter to the time it reaches the optical axis, including the prism (24). Additionally, it is noted that the viewfinder of Bauer provides vision over a wide field. Since this limitation is a very broad limitation, the examiner is interpreting Bauer's field of view to be a wide field of view, since it is not a narrow field of view.

Bauer does not disclose a spectral splitter configured to split light passing along the main optical axis into spectral components; photoelectric-effect sensors each configured to receive a respective one of the spectral components.

However, Ohshima discloses a spectral splitter configured to split light passing along the optical axis into spectral components (Fig. 1, element 8); and photoelectric-effect sensors each configured to receive a respective one of the spectral components (Fig. 1, element 9A-9C). One of ordinary skill in the art at the time of the invention would have substituted the spectral splitter and photoelectric-effect sensors for the film of Bauer in order to capture digital images in studio

Art Unit: 2622

quality. It is well known in the art that capture images digitally has several distinct advantages – the ability to electronically store images, manipulate images and to transfer images. As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have substituted the spectral splitter and photoelectric-effect sensors for the film of Bauer in order to capture digital images in studio quality.

Additionally, the combination of Bauer and Ohshima fails to specifically disclose a control device maintaining the at least one rotative element at a speed of rotation proportional to a frequency of a synchronization signal used for reading of the photoelectric-effect sensors; and a position sensor configured to detect a position of the at least one rotative element, the position sensor and the control device enabling the at least one rotative element to be phase-shifted with respect to the synchronization signal. However, Glenn teaches an automatic control device (a motor control comprising a phase locked loop circuit) for the at least one rotative element (Fig. 1, element 190; Fig. 4, element 195) at a speed of rotation proportional to the frequency of a signal given by a processing means (Fig. 1, element 190; Fig. 4, element 191) to the automatic control device (col. 5, lines 14-41), the signal being a synchronization signal for the reading of the sensors by a processing means (col. 5, lines 23-26), and in that the camera comprises a sensor of the position of the at least one rotative element (Fig. 1, element 40), the position sensor and the automatic control device enabling the at least one rotative element to be phase-shifted with respect to the synchronization signal (col. 5, lines 47-51). One of ordinary skill in the art would have provided the motor controller, sync. timing circuitry, and position sensor to rotate the motor at a constant rate (60 Hz) and to cause the vertical retrace of the camera to occur when no light from the image is going to the camera (col. 5, lines 47-60). As a result, it would have been

Art Unit: 2622

obvious to one of ordinary skill in the art at the time of the invention to provide the motor controller, sync. timing circuitry, and position sensor to rotate the motor at a constant rate (60 Hz) and to cause the vertical retrace of the camera to occur when no light from the image is going to the camera.

Finally, the aforementioned references fail to specifically disclose that the viewfinder provides vision over a wide field. Hines, on the other hand, discloses that it is well known in the art to include a viewfinder with a wider field of view than will actually be photographed (Fig. 7A). One of ordinary skill in the art would have configured the viewfinder of Bauer with a wider field of view than will actually be photographed in order to help the photographer compose the picture (col. 6, lines 46-48). As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have configured the viewfinder of Bauer to include a useful field image detected by the photoelectric-effect sensors and a peripheral field image contacting a periphery of the useful field image for providing a viewfinder with a wider field of view than will actually be photographed in order to help the photographer compose the picture.

15. As for **claim 12**, Bauer discloses the camera comprises at least one mode in which the shutter periodically switches between the closed and the open positions (Abstract: lines 1-4). Bauer does not disclose the switching period is smaller than the duration of retinal persistence. However, Glenn teaches a reflecting rotating shutter (col. 4, lines 51-60; Fig. 1, element 101) that switches at a rate of 60 times per second (16.7 milliseconds/switch (col. 2, lines 17-25). Furthermore, Glenn teaches motion reduces perception for about 300 milliseconds (col. 3, lines 49-51). Clearly, the switching period is smaller than the duration of retinal persistence. It would have been obvious to one of ordinary skill in the art at the time of the invention to configure the

Art Unit: 2622

switching rate of the shutter to be consistent with typical video frame rates (~30 full frames per second or ~60 interlaced frames per second) (col. 1, lines 35-40 and 65-70; col. 2, lines 8-10).

As a result, one of ordinary skill in the art would have configured the switching period to be smaller than the duration of retinal persistence in providing video at standard frame rates.

16. Regarding **claim 15**, Glenn discloses the photoelectric-effect sensors are frame transfer sensors (col. 3, lines 14-19).

17. Regarding **claim 17**, Bauer discloses the at least one rotative element includes at least two mirror parts and at least two aperture parts, the mirror parts all cover a first angular sector and the aperture parts all cover a second angular sector (Fig. 2, elements 16, 30, 32).

18. Regarding **claim 21**, Ohshima discloses an adapter (Fig. 1, lenses 3 and 4; col. 3, lines 12-19) configured to receive the light passing along the optical axis after having passed through the shutter and the focal plane, wherein the spectral splitter is configured to receive the light passing along main optical axis after having passed through the adapter and is configured to split the received light along separate split patterns, and the shutter is positioned between the objective and the objective focal plane.

19. **Claim 22** is considered substantively equivalent to claim 14. Please see the discussion of claim 14 on the previous pages.

20. Regarding **claim 29**, Hines discloses a viewfinder with a wider field of view than will actually be photographed (Fig. 7A). One of ordinary skill in the art would have configured the viewfinder of Bauer with a wider field of view than will actually be photographed in order to help the photographer compose the picture (col. 6, lines 46-48). As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have configured the

Art Unit: 2622

viewfinder of Bauer to include a useful field image detected by the photoelectric-effect sensors and a peripheral field image contacting a periphery of the useful field image for providing a viewfinder with a wider field of view than will actually be photographed in order to help the photographer compose the picture.

21. *Claim 30* is considered substantively equivalent to claim 29. Please see the discussion of claim 29 above.

22. **Claims 16, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer, II (U.S. Patent No. 3,692,394) in view of Ohshima et al. (U.S. Patent No. 4,812,911) and further in view of Glenn (U.S. Patent No. 4,667,226), Hines (U.S. Patent No. 6,122,455), and Okada et al. (U.S. Pat. No. 4,758,905).**

23. Regarding *claim 16*, Bauer discloses the shutter comprises modes that can be selected by a user, including: a viewfinder mode fixing the at least one rotative element at a position in which the mirror part intersects the main optical axis (col. 1, lines 6-16, col. 2, lines 59-65); and a combined mode spinning the at least one rotative element such that the mirror part and the aperture part periodically intersect the main optical axis at a period smaller than a duration of retinal persistence (col. 2, lines 4-28; also see rejection of claim 12).

None of Bauer, Ohshima, Hines, or Glenn discloses a shutter mode comprises a user selectable video mode corresponding to at least one rotative element that always has an aperture part that intersects the main optical axis. However, Okada discloses a shutter mode comprising a user selectable video mode corresponding to at least one rotative element that always has an aperture part that intersects the main optical axis (col. 8, lines 26-42). One of ordinary skill in

Art Unit: 2622

the art would have configured the shutter to remain continuously open for the purpose of capturing images continuously (col. 8, lines 26-42). As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have provided a video mode fixing at least one rotative element at a position in which the aperture part intersects the main optical axis for the purpose of capturing images continuously.

24. Regarding *claim 18*, Bauer discloses a reflective rotating shutter. Neither Bauer nor Ohshima disclose there are at least two rotative elements having a same axis of rotation and offset by an angular offset such that the mirror parts of the at least two rotative elements overlap at least partially.

However, Okada discloses the shutter comprises at least two rotative elements having a same axis of rotation and offset by an angular offset such that the mirror parts of the rotative elements overlap at least partially (Fig. 1, elements 1, 2, 3, and 5; col. 3, line 59-col.4, line 16). One of ordinary skill in the art would have provided overlapping shutter blades for the purpose of enabling a user to adjust the size of each opening (col. 4, lines 14-17). As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the overlapping shutter blades of Okada with the reflecting rotating shutter of Bauer for the purpose of enabling a user to adjust the size of each opening.

25. Regarding *claim 19*, Okada further discloses the angular offset can be selected by the user (col. 3, line 59-col. 4, line 18; Fig. 1, elements 1,2, and 3).

26. **Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer, II (U.S. Patent No. 3,692,394) in view of Ohshima et al. (U.S. Patent No. 4,812,911) and**

further in view of Glenn (U.S. Patent No. 4,667,226), Hines (U.S. Patent No. 6,122,455) and Anderson (U.S. Pat. No. 6,215,523).

27. Regarding *claim 20*, Bauer discloses a camera comprising: an objective support configured to support an objective (Fig. 1, lens 14) having an objective focal plane (Fig. 1, element 20) and a main optical axis (arrow entering lens until rotary reflective shutter 16); an optical viewfinder (Fig. 1, eyepiece 28) located off the main optical axis and configured to provide an off-field view image because the light reaching the optical viewfinder is different from the light reaching the imaging plane, the light of the optical viewfinder being designated the off-field view (Fig. 1); and a shutter configured to allow the light of the main optical axis to pass through the shutter, in an open position, and configured to direct the light to the viewfinder along a viewfinder optical axis, in a closed position (Fig. 1, element 16). Bauer discloses the shutter comprises at least one rotative element including at least one mirror part corresponding to the closed position and at least one aperture part corresponding to the open position (Fig. 1, elements 30 and 32). Additionally, applicant claims that the light is reflected from the shutter to the viewfinder without further changing the optical axis. Clearly the prism (24) of Bauer is part of the optical viewfinder. Thus, the optical axis of the light reflected from the shutter is not further changed from the point of the reflecting shutter to the time it reaches the optical axis, including the prism (24).

Bauer does not disclose a spectral splitter configured to split light passing along the main optical axis into spectral components; photoelectric-effect sensors each configured to receive a respective one of the spectral components.

However, Ohshima discloses a spectral splitter configured to split light passing along the optical axis into spectral components (Fig. 1, element 8); and photoelectric-effect sensors each configured to receive a respective one of the spectral components (Fig. 1, element 9A-9C). One of ordinary skill in the art at the time of the invention would have substituted the spectral splitter and photoelectric-effect sensors for the film of Bauer in order to capture digital images in studio quality. As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have substituted the spectral splitter and photoelectric-effect sensors for the film of Bauer in order to capture digital images in studio quality.

Additionally, the combination of Bauer and Ohshima fails to specifically disclose a control device maintaining the at least one rotative element at a speed of rotation proportional to a frequency of a synchronization signal used for reading of the photoelectric-effect sensors; and a position sensor configured to detect a position of the at least one rotative element, the position sensor and the control device enabling the at least one rotative element to be phase-shifted with respect to the synchronization signal. However, Glenn teaches an automatic control device (a motor control comprising a phase locked loop circuit) for the at least one rotative element (Fig. 1, element 190; Fig. 4, element 195) at a speed of rotation proportional to the frequency of a signal given by a processing means (Fig. 1, element 190; Fig. 4, element 191) to the automatic control device (col. 5, lines 14-41), the signal being a synchronization signal for the reading of the sensors by a processing means (col. 5, lines 23-26), and in that the camera comprises a sensor of the position of the at least one rotative element (Fig. 1, element 40), the position sensor and the automatic control device enabling the at least one rotative element to be phase-shifted with respect to the synchronization signal (col. 5, lines 47-51). One of ordinary skill in the art would

Art Unit: 2622

have provided the motor controller, sync. timing circuitry, and position sensor to rotate the motor at a constant rate (60 Hz) and to cause the vertical retrace of the camera to occur when no light from the image is going to the camera (col. 5, lines 47-60). As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the motor controller, sync. timing circuitry, and position sensor to rotate the motor at a constant rate (60 Hz) and to cause the vertical retrace of the camera to occur when no light from the image is going to the camera.

Ohshima discloses splitting imaging light into different light components and then capturing each component on a different image pickup element. None of Bauer, Ohshima, or Glenn discloses a screen to view the synthesis of the different light components after their passage into a processing means.

However, Anderson discloses a camera comprising an LCD screen 402 (Fig. 3). One of ordinary skill in the art would have provided an LCD screen in order to view captured images. As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have provided a screen configured to display the synthesis of the light components after passage into processing means in order to view captured images.

Finally, the aforementioned references fail to specifically disclose that the viewfinder provides vision over a wide field. Hines, on the other hand, discloses that it is well known in the art to include a viewfinder with a wider field of view than will actually be photographed (Fig. 7A). One of ordinary skill in the art would have configured the viewfinder of Bauer with a wider field of view than will actually be photographed in order to help the photographer compose the picture (col. 6, lines 46-48). As a result, it would have been obvious to one of ordinary skill in

Art Unit: 2622

the art at the time of the invention to have configured the viewfinder of Bauer to include a useful field image detected by the photoelectric-effect sensors and a peripheral field image contacting a periphery of the useful field image for providing a viewfinder with a wider field of view than will actually be photographed in order to help the photographer compose the picture.

Conclusion

28. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

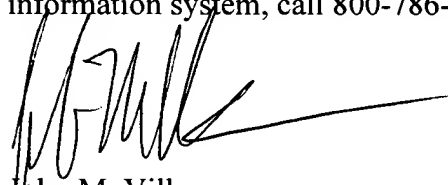
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John M. Villecco whose telephone number is (571) 272-7319. The examiner can normally be reached on Monday-Friday.

Art Unit: 2622

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'J. Villecco', with a long horizontal line extending to the right.

John M. Villecco
April 19, 2007